FIG. 1A

cag	aaag	aga (ccta	tatg	at c	aaat	acag	a ac			ttc Phe					53
	agc Ser															101
	gtc Val 25		_	_	_							_				149
_	gaa Glu	-			-			_						-		197
	gcc Ala															245
_	gcc Ala			_			_	_				_	-	_		293
	ata Ile															341
	atc Ile 105															389
	gct Ala															437
aca Thr	gat Asp	gag Glu	gta Val	gag Glu 140	ctc Leu	acc Thr	tgc Cys	cag Gln	gct Ala 145	aca Thr	ggt Gly	tat Tyr	cct Pro	ctg Leu 150	gca Ala	485
gaa Glu	gta Val	tcc Ser	tgg Trp 155	cca Pro	aac Asn	gtc Val	agc Ser	gtt Val 160	cct Pro	gcc Ala	aac Asn	acc Thr	agc Ser 165	cac His	tcc Ser	533
agg Arg	acc Thr	cct Pro 170	gaa Glu	ggc Gly	ctc Leu	tac Tyr	cag Gln 175	gtc Val	acc Thr	agt Ser	gtt Val	ctg Leu 180	cgc Arg	cta Leu	aag Lys	581
cca Pro	ccc Pro 185	cct Pro	ggc Gly	aga Arg	aac Asn	ttc Phe 190	agc Ser	tgt Cys	gtg Val	ttc Phe	tgg Trp 195	aat Asn	act Thr	cac His	gtg Val	629

FIG. 1B

				_	-	_		_			-	_	_	gaa Glu		677
					~ -	_								tgc Cys 230		725
														caa Gln		773
														gtc Val		821
				gaa Glu						tga	acct	igtgo	gtc	ttggg	gagcca	874
gggt	gaco	ctg a	atato	gacat	c ta	aaga	agct	t tot	ggad	ctct	gaad	caaga	aat 1	tcggt	ggcct	934
gcaç	gagct	tg c	ccatt	tgca	ac tt	ttca	aato	g cct	ttgg	gatg	acco	cagca	act 1	ttaat	ctgaa	994
acct	gcaa	ıca a	agact	agco	ca ac	acct	ggco	ato	gaaac	ttg	cccc	ettca	ict o	gatct	ggact	1054
cacc	tctg	ıga ç	gccta	atggo	t tt	aago	aago	act	acto	cac	ttta	ıcaga	at t	cacco	cactg	1114
gato	ctgg	sac c	ccaca	ıgaat	t co	ttca	ıggat	cct	tctt	gct	gcca	ıgact	ga a	aagca	ıaaagg	1174
aatt	attt	cc c	ctca	agtt	t to	taag	rtgat	ttc	ca							1209

FIG 2A

75 60 61 66 77 77 72	5 8 4 8 7 7 8 7 1 4 8	78 78 78 78 78 78 78 78 78 78 78 78 78 7
	PTS (PTI) (AVP) (AVP) (AVP) (BP) (AVP) (AV	* GHLR DKT WNTH . DPEEN /TLOON /TLOON /TLOON /TLOON
KMY KMINI KM		YG T W.L.DP NYLL NYLL NYLL NYLL NYLL
	18DF SDF NTH NKH NKH NKH NKH NKH NKH NKH NKH NKH NK	T T T T T T T T T T T T T T T T T T T
E A C A B B B B B B B B B B B B B B B B B	180 FETEST SDET FESOBET Y. RKINTHING FESOPOW YSKPSM YSKPSM GSKPLTET GSKPLTET GSKPLTET GSKPLTET GSKPLTET GSKPLTET	Z C C C C C C C C C C C C C C C C C C C
80 21RH V V V V V V C C C C C C C C C C C C C	* VKADFP' VLANFS VKASY. VAANFS VAANFS VAALGS VAALGS VAALGS	260 WITNHSEMCLIKY.GHLE VISNMTIFCILETDKT PEGRNFSCVFWNTH TTNEIFYCTERLDFEEN TPSVNIGCCIENVLLQQN GANGTYSCLVRNPVLQQN KYVRNWSCSTNNTLLGQE GSGEGVSCITRNSLLGLE SSGGGVSCITRNSLLGLE SSGGGVSCITRNSLLGLE
		MN DVO THE D X X
VSVEELP VSVEELP OSLSEIV VNIGAII EDLNDV FSLAOL NAEDM NAEDM SAETM SAETM SAETM	EVTESVE VSELSVI VTTVKVE VYTHVVE VSELVVE IRLVVE VELKVE VELKVE VELKVE	SVSEP RELEP RELEP RELEP RELEP TIRD TIRD TIRD
* OKEVATESCGHNVSVEBYFNETADLPCQFANSQNQSLEHGSNVT.LECNFDTGSHVNIC.EYGSNMT.TECKFPVEKQLDLZAVGEDATGCSFSPEPERTOTATURCHISPEK.NAHANGENTTLRCHISPEK.NAHANGEDADLPCHLFPTM.SALAWVGEDADLPCHLFPTM.SALAWVGEDADLPCHLFPTM.SALAVVGEDAELPCRESPNA.SA	160 AFKREHLAEVT SMIRIHOMNSE SVA.WDYKYLT GGADYKRIT SFQEVLSVEVT STSAAVS SKS.YDEALLH	N A A V I I I I I I I I I I I I I I I I I
ACPE SESP ACPE SESP ALSP ALSP ALSP ALSP ALSP ALSP	1 TKRE TIRI TA.W SADY COEV SS.Y SS.Y SS.Y SS.Y SS.Y	VSS VVS VVVS VVVS TTT TTAAA
	Q E :	24 GLFI GLY GLFI GLFI GLFI GLFI GLFI GLFI GLFI GLFI
6 TAD	* THHKKE THHKKE THESY VESOSI V	DET DAD CP.E. CREE CANEQ DAD DGV DGV DGV
YEN HGSP MVG TVG MVG MVG	ECOVUL ROUTH ROLUH ROYE. ROYE. TOYE.	* SQI KSQI TOTO TOTO TOTO TOTO TOTO TOTO TOTO TO
*	HILL RATE OF THE COLUMN AND THE COLU	SIMO SOND SOND EAP EAP SEAP SOND
	140 RPSDEGTYE DIKDMGLYG VLODAGVYEN RPODEOKEN RADEGSFI RADEGSFI RADEGSFI RADEGSFI RADEGSFI RADEGEYEN RADEGEYEN RADEGEYEN RADEGEYEN	240 7. SQDPETELYA WSTIEYDGIMQKSQDNVTELYD HSK. TP.EGLYO TNSK. REEKLEN SLLDQALQNDTVFLNMRGLYD SQ. MANEQGLFD KEVSMP. DADGLFM KEVSMP. DADGLFM KEVSTA. DADGLFM EAPVVA. DGVGLYE EAPVVA. DGVGLYE EAPVVA. DGVGLYE EAPVVA. DGVGLYE SASRNP. DEEGLFT
OPPLY CPPLY CPPLY CPPLY CPPL CPPL CPPL CP		220 TO T
· A K O F E F Y S S F	* SIVILAL VTLRLHNL VTLRLHNL VALQHITDV VALQHITDV VALUHNI VALVIHNV VALKHNV VALKH	
* LESH. EC. SGV LEVMAELLSGP TAALETVTV INA. FTVTV LTGALEVQV USAQETVVG VSAQETVVG VSAQESVLG CSAQESVLG	* .ITNNLSIVIISDSWTLRLI LPLGKASFHIE LSLGNAALQII MLRGDFSLRLE MLRGDFSLRLE MLRGSVALVII INRGSVALVII INRGSVALVII ITAGKAALRII ITAGKAALRII	* SWLENGEELNAIN SVLIR SWLNVSVPA IWTSSDHQVLSGK YWINK YWACQCGVPLTGN VWRDPYGGVAP VWRDP.YGGVAP VWRDP.YGGVAP VWRDP.YGGVAP VWRDP.YGGVAP
LSH. FVMA LIAAL LIAAL LIGAI LIGAI VSAQI CSAQI CSAQI	TTUN SOS PLGN ADGU BRGE BRGE BAGG BAGG BAGG BAGG	GEEJ GEEJ DHOV DHOV CCC CCC CCC CCC CCC CCC CCC CCC CCC C
* * * * * * * * * * * * * * * * * * *	· · ○○ ○ □ · · · · · · · · · · · · · · ·	VLEN VL VEDS VODG VRDP VRDP VRDP VRDP VRDP VRDP VRDP VRDP
I VIII VIII VALINII VARINII VA	120 120 120 121 121 131 131 131 131 131 131	H KMS W KMS
FFOI SEE AALG AALG TOLL	RATE REPAIR REPA	200 PEPK PEPK PEPK PRPN PEAE PERL PEPL PEPL PEPL
20 Litted Child	* EYKN KYMO SYRO BYRO BYRO BYRO BYRO BYRO	GGWYII GWYII GWYII GWYII GWYII GWYII GWYII GWYII GWYII GWYII GWYII
* 20 * MGHTRROGTSPSKCPYINFFOLLVIAG.ES MGISNILFV MGISNILFV MRIGSPGTWHL.INFEL MERRGSPGMGWHYGAALGAIWFC.IT MERRGSPGMGWHYGAALGAIWFC.IT MEPAALHFSRPASILLILLISICAL.VS FHVSLLIVQLITPCS FHVSLLIVQLITPCSMAVFPSSGLPRCITILIQUPKIDS	100 • MMSGDMNIWPEYKNRTI EVYLGKEKFDSVHSKYMGRTS • VENDTSPHRERATLLE FVHGEEDLKVOHSSYRORARLLK • VTYHIPONSSLENVDSRYRNRALMS:I LVHSFAEGQDQGSAYANRTALFP AVFVYKGGRERTEEQMEEYRGRTTFVSI AVFVYKGRERTEEQMEEYRGRITFVSI VNNVYADGKEVEDRQSAPYRGRITFVSI VNNVYADGKEVEDRQSAPYRGRITFVSI VNNVYADGKEVEDRQSAPYRGRITFVSI VNNVYADGKEVEDRQSAPYRGRITIRVSI AVLVHRDGREQEAEQMPEYRGRITIR	* 200 ** NIRRIICSTSGGEPEP.HLS ** SNITENVYINLICSSIHGYPEPKKMS ** ETDEVELTCOAT.GYPLAE.VS ** VDPVT.SEHELTCOA.EGYPKAE.VI ** SPSQDELTFTCTSINGYPKPR.VY ** KDLRPGDTVTITCSSYGGYPEAE.VF ** KGHEDGGIRLECISRGWYPKPL.TV ** KGYEDGGIRLECISRGWYPEPL.TV ** KGYEDGGIRLECRSTGWYPQPQ.IQ ** KGYEDGGIRLECRSTGWYPQPQ.IQ ** KGYEDGGIRLECRSTGWYPQPQ.IX ** KGYEDGGIRLECRSTGWYPQPQ.IX ** KGYEDGGIRLECRSTGWYPQPQ.IX
MI MI MR SSPG GSSPG IPA LLAF	N N N N N N N N N N N N N N N N N N N	CHESTHALLER CHESTH
RROG VRIG LHF LHF LHF MAVF	GKE GKE GKE GRE GRE GKE GKE	NVYY DVY SDTV SDTV SDTV SDTV SDTV SDTV SDTV SDTV
MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1(S) VHIH VYKC VYKC VYKC VYKC VYKC VYKC VYKC VYKC	ITTE ITTE ITTE PVT SQ · SQ · GHE VODE
MES	100 • MMSGDMNIWPEYKNRTIFD • EVYLGKEKFDSVHSKYMGRTSFD • VENDTSPHRERATLLE.E • VHYLIPONSSLENVDSRYRNRALMS.PA • UYYHIPONSSLENVDSRYRNRALMS.PA • LVHSFAFGQDQGSAYANRTALFP.D AVFVYKGGRERTEEQMEEYKGRITFVSKD • VVNVYADGKEVEDRQSAPYKGRITFVSKD • AVLVHRDGREQMPEYKGRITLR.D	N S S S S S S S S S S S S S S S S S S S
an :: 90		Human 17596 Huma 1 Huma 1 Huma 2 Human a2 Hu Human 3 Human
Human Human 317596 Thum 1 Hum 2 Human Human Human Human Human 13 Hum	Human (817596 (11 Human old) - Human	1880 Huma 1886 Huma 181681759 17-H1 Hum 17rp-1 Hu 170352 Hu 171 Huma 1812a2 H 1814 Huma 1813a3 Huma 1813a3 Huma
Cd80 Human Cd86 Human GA16817596 B7-H1 Huma B7rp-1 Hum Pro352 Hum Btf1 Human Btf4 Human Btf4 Human Btn3a3 Hum	0 8 H 1 35 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cd80_Human Cd86_Human GA16817596 B7-H1_Huma B7rp-1_Hum Pro352_Hum Btf1_Human Btf1_Human Btsf2a2_Hu Btsf2a2_Hu Btsf2a2_Hum Btsf2a2_Hum Btsf2a2_Hum Btf1_Human
	Cd8 Cd8 GA1 B7 Pro Pro Btf. Btf.	

affrig garing garing gasser garase garas El H. J. H. J. J. Harres Brances Trapal' Homes Brances. H. H. H. J. J. H. H. J. J. H. H. J. J. H. H. J. H. J. H. H. J. H

FIG. 2B

288 200 200 302 302 313 313	60 323 323 316 392 368 368	*
360 DBAQR I KHSDS OBELR IBELK	4	VPVRP GPLRP
RNERL. RRESVR. PW EESEQTKKREKIHIPERSDEAQR KDTTKRPVTTTKREVNSAI IQDTNSKKQSDTHIEET AWAVSPETELTGHV ADDQDGEGEGSKTADQPIKHSDS LSGEKKVEQEEKEIAQQIQEELK KEMGYAATEQEISTREKKQEELK KEMGYAATEQEISTREKKQEELK	* SGKHYWEVEV <mark>GDRK</mark> SGRHYWEVEV <mark>GDRK</mark>	540 CPRSAFT FPHASFS
340 REBSECTKRESVR. REBSECTKREKIH SKDTTKRPVTTKR SAWAVSPETELTGH SANDOGEGEGSKT ILSGEKKVEQEEKE ILSGEKKVEQEEKE	<u> </u>	I X I
340 KERRENBEL. VIMEREBSECT LYSSKETTKR KKCGICDTUS SYACAMAVSP SENAGABECOG KEK KKILSGEKK KEKKILSGEKK KER	44 CVLGW CVLGC CVLGR	* FYNMRDR FYNATDG
* 340 CRERRRNERL.RRESV KGGTNTMEREESEOTKKREK OLCOKLYSSKETTRRPVTTT RMMDVKKGGIODTNSKKOSD RCICHSYAGAMAVSPETELT SC.EEENAGAMAVSPETELT SC.EEENAGAMAVSPETELT KLOREK KRIOREK KRIOREK NETEREREMKEMGYAATEOE NERPRER	* EREDSQP	520 DYEAGDVS DYETGEIS
RNSY. RR KINNSY. KINNSY	420 * RRGPYRQRWPDNPERED QRAEEPRDLPDNPEREE	5 RVGVFLDY KVGIFLDY RVGIFLDY
- 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20		* 520 * GNONRALSPERILPLKESLCRVGVFLDYEAGDVSFYNMRDRSH GNKYRALTEPRTNLKLPEPPRKVGIFLDYETGEISFYNATDGSH GNGWMALTPLRTPLAGPPRRVGIFLDYESGDISFYNMNDGSD
CCELLE TIMET TIGNAT VILLALI VILLAV SYFLW SIFFTW	400 * LDPDTAHPELFLSEDRRSV LDPDTANAILLVSEDORSV LDPDTAHPHLFLYEDSKSV	OO PERILPI PRTNIKK
* VIICOLTY TICONNE CALLI AVICLIA AVICLIA SELLILAGA SELLILAGA SELLILAGA	HPELELS NAJELV HPHEFE	5(YRALSSI YWALTPI
		• Д •
WATTE WATTE WWI OMEPR PPE CAVAL WWVAL WHAAL WIAAL	* .TELHAA <mark>DW</mark> V MALFKPA <mark>DW</mark> I	SFWTL SYWTN SFWAV
* ASIDITAL ASIDITA ASIDITA ASIDITA ASIDITA ASIDITA ASIDITAL ASIDITAL ASIDITAL ASIDITAL ASIDITAL ASIDIT	· · · · · · · · · · · · · · · · · · ·	480 VLLIPON VKWTPEN
VNTTKOEHH IELEDPOPH IELEDPOPH INTROCHH INTROCHH INTROCHH INTROCH INTROCHH I	380 DKSDICE	* VE.RKGE V.MKKGW
SOFENW SPESI SOTON ISTRE	* 380 VEKSSKTSSCDKSDTCF KEDDGQEIA WRRTFL WRK WKK	* 480 VWTVGVCRHSVE.RKGEVLLIPON EWHIGVCSKNVERKKGWVKWTPEN DWAIGVCRENV.MKKGFDPWTPEN
· K K H H · K K K K K K K K K K K K K K	WRR	VWTV
Cd80_Human Cd86_Human GA16817596 B7-H1_Huma B7rp-1_Hum Pro352_Hum Btf1_Human Btf4_Human Btf4_Human Btf4_Human Btf1_Human	cd80_Human cd86_Human cA16817596 B7-H1_Huma B7rp-1_Hum Pro352_Hum Btf1_Human Btf1_Human Btf4_Human Btn3a3_Hum	cd80_Human cd86_Human cd86_Human GA16817596 B7-H1_Huma B7rp-1_Hum Pro352_Hum Btf1_Human Btf4_Human Btf4_Human Btf4_Human Btf1_Human Btf4_Human
Cd86 Cd86 GA168 B7-H1 B7rp- Pro35 Btf1 Btsf2 Btsf2 Btn3a	Cd80 F Cd86 F Cd86 F GA1681 B7rp-H1 B7rp-H1 B7rp-F B1f1 F B1f1 F B1f2 F B1f1 F B1f1 F B1f1 F	Cd80_F Cd86_F GA1681 B7rp-11 Pro352 Pto352 Btf1_F Btf2a Btn3a3

Agent grant the state of the st

FIG. 2C

	1	1	1	1	1	1	1	523	584 526	1
	:	:	:	:	:	:	:	:	EALY	
*									ITNQNHKLQART	
620									HPGAEVSPSA' QPSQGAP	
*									AEVTSLLLPA DTLHSKLIPT	
009								-	LANESGEPÇ GEESAPRD	
*							100110011011	LURVGIHÇOI	HSLETPLTPC LSKEIPLSPN	
580							7 TOBBOTT		SSPDPDLVPD VTVIANAQD	
*							TOPATITOPS		ICPIPKEVES ICPIADGPEB	
560							FER. GSDDSPERFICE AT. TCA SCVMVDFFCI ET UDWCHIOGI		VERILTLEPTALT FECLWSSGKKPLT	
Cd80 Human :	Cd86 Human :	GA16817596 :	B7-H1 Huma :	B7rp-1 Hum:	Pro352 Hum :	Btfl Human :	Btsf2a2 Hu:	Btf4_Human :	Btn3a3_Hum : VERILTLEPTALTICFIPKEVESSPDPDLVPDHSLETPLTPGLANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNHKLQARTEALY : Btn_Human : Fectwssgkkphticpiadgpervtvianaqdlskeiplspmgeesaprdadthskliptqpsggap	

FIG. 3A

ataagaagct	gaattaaggt	gatggcagtg	gggtggaaga	aaggagagco	accatgcaaa	60
aagtatccag	gagggagaat	taacaggact	aggggatggg	ccatatttgc	aagatgagaa	120
atgcagaggt	ctaagattct	agctnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	180
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	240
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nngcataaac	300
catattttcc	ccagaggagg	attagtagga	aaggaagctg	ctggttggaa	agtatcttta	360
tagcagtgtc	tgttcctcgg	tttgctcaag	gggacagtgt	gccaggaaag	tccccgtgga	420
agggcaagga	agaaggggaa	gttaaagcca	gtggcaggtg	atccaagaat	cttttctgtt	480
gctagagcta	tgttacatgc	tgtcctttca	tgctctaaaa	ataagagtgc	tggcaagtgc	540
caggcctgtt	ggtgcagctt	aagatgatac	ctttcttgga	tatatatgca	tctgaataag	600
gaaggctatc	ttctggtcaa	gctaaggtat	gccatgagca	tttccctgtg	gaaagcactt	660
aattctgttc	ccagttgtta	cctgctgtaa	gatctccctt	tctaaaataa	aaacaagaat	720
acagctcact	gaggacctta	catttccctc	tagctactga	ctcatttctc	ttctcctttt	780
tatagcactc	ttcttgagag	agttgcctat	atttgttgcc	acatctttac	ccattctctt	840
ttgaacctat	tcaagctttc	atctgtacaa	aactcactga	tactgtgctt	gtcaggatca	900
tccatgacct	ccatactgct	aaatgcaact	ctcaagagta	tttggctcta	ctgatcactc	960
ctttgtagca	ctgtgtttta	aaatataggt	tttattatta	tttaggtatg	gtgaggccaa	1020
tatatcagga	aatgactgtc	gttgaaaaaa	gtatgttgta	ctcacagatc	ccaagagaag	1080
gggggcacac	catgccacaa	agggccacat	ggggaagcac	cagggtcagc	caggaggtgg	1140
gtgggggtg	cgcaagatct	ttattgtggt	ttcaacagga	agaaatgggt	gaagcagggt	1200
gagtggattt	aggattagct	gatataaata	atttcagcag	gctctggggc	ataggggctg	1260
tccctagtct	tctggtactt	ggccctgggg	tgattaaggc	agttgcatag	tgttgggaat	1320
gtgaaagccc	ccaataaatg	aggcagttgt	gggtatgggc	tctgaaatgg	gttggtttgc	1380
atttgaaagg	tgtgctcatg	ggcaagtggt	ttactctctc	ttagaggtta	gaattggcta	1440
accctgggag	cggcagtccc	ttcagggtca	gcaaggcccc	aggtgtcaaa	gcatcagaat	1500
acagaaaata	aaatgcatgg	ataatacaca	ctgccatttg	cctttgtacc	cttcctttca	1560
atcttctctg	ctggtgaccg	ctcttcacaa	agatctataa	atgttggaat	accccatgtc	1620

FIG. 3B

tcagtcctt	g ggcactctc1	t ttcctatctc	c tctgtaggto	g atgtaatgc	a gatatccato	g 1680
actttaaato	c tttaacactt	t ctgcattgat	gactcctaaa	tttacatct	c taccccaact	1740
gcctactaaa	a cacctccact	tggctatcta	ı ataggcattt	caaaccaaa	t ctacaacaaa	1800
cgtaactctt	tttccccttc	cttaatttgc	: ttctccccc	geettetee	a ttttaataaa	1860
cagcatctcc	c attgccttac	g tgactcaago	: cccaaactta	ggaattttc	c cagatttccc	: 1920
tctttttctc	c aaactatata	a tctagcctgt	cagcagttcc	cttcaggtct	tttttcnnnn	1980
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	2040
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	2100
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnr	תתתתתתתתתת	2160
nnnnnnnn	ממממממממ	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	2220
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	2280
nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	2340
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	2400
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnna	2460
ctaannnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	2520
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnngctc	2580
catttatatt	tannnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	2640
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	2700
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	2760
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	2820
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	2880
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	2940
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	3000
					nnnnnnnnn	
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	3120
					nnnnnnnnn	
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3240

FIG. 3C

nnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn nnnn	nnnn 3300)
nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn	nnnn 3360)
nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn	ttta 3420)
aatatatata cacacttaga cacatataac cctctttcgt atatcaatta tacttt	aata 3480)
aagctgttgn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnn	gcca 3540	ı
acagaccact totcaccoct actageceet etactetaag etateageat ttetge	aaac 3600	ı
acattectaa eegateteae tgettgtaat ettgeeagea aceteteeet eteagea	aata 3660	I
gtctattgcc tacaccaaag cttagttgtc tcttaatgat gtaaatgagg ttctat	catt 3720	
ctcctgaccc aaaccctcca ctgcttttca tcacactcag agcagctctg ctgttg	cctg 3780	
atttagatgt atggctccaa cagatttccc ctgaagaaat gattccatgg ctgataa	aaag 3840	
ttggaaagcc tcctcagttt cagaccatta tcagattagc tgtgtgctct gtccct	tcc 3900	
tcaaccataa gaagtccatg gataaagaaa gcttcagagt aaaggagaaa gcatgg	jagg 3960	
tacagcagga ccaaggtggg gcattcgcag ccccaccct catcagagcc agttccc	tac 4020	
tctccctgtc taaacctctt agtaagaggt agttcaagag aggggcaaac tcaattc	cag 4080	
cactcaaaag cacttgacta ctttgctcag tcaactagca agtatttatt gagaatg	jtag 4140	
ctctgttcta tggagtctta ttttcaagtg tcagactccc agacatccag tccaggt	aaa 4200	
gaagatggtg tccattattc atttgacaaa caaagttggg gttcaagggc cagctat	tga 4260:	
aaaaagctat ggaaagcttc atgagacgtg caggtaactg ccaatatgtg tggttca	ıcaa 4320	
ggactggttc atattcagaa acggccatta gaaaaggaag aagaacttct catttgg	ratt 4380	
tataaagagt gtcttgttta ctcttaattt atatcttctc ttctccagga aatcaac	cta 4440	
taacttctcc tcccagctcc actctaccat ggtctgtcac cttccccaaa tgatttg	tta 4500	
ttcccctgtt ttcaaaagtg aacaaagaac caaagaccca gcaaagtttc acaaggc	cct 4560	
gagactttca attgtctatt tcagatcaaa tacagaac atg atc ttc ctc ctg $$\operatorname{Met}$$ Ile Phe Leu Leu	cta 4616 Leu 6	
atg ttg agc ctg gaa ttg cag ctt cac cag ata gca ggtaagaaag Met Leu Ser Leu Glu Leu Gln Leu His Gln Ile Ala	4662 18	
gacaaaggga gaggcttaag aaagaagagc aggtggtggt tcctagccaa agccaaa	aat 4722	
gagaatgtgg ccctcaggct gagggctttc tttgagagga cgtatgattt ctgggct.	att 4782	

FIG. 3D

ccaagcacca	caaaaaaaaa	aagagtcccc	atggtggctt	atacatgcca	atgtccctat	4842
ctgacagaaa	cggtgactga	gaatattgct	ccatctattc	ccactatcca	gtgagggtaa	4902
tgacaagaag	acaggatcac	tcagaccatg	taaatctaaa	ctgatacaag	agggcagggg	4962
ttgagttccc	ttaaaggtga	gatgccaagc	agctgtcccc	ttcctttctg	gcagggagag	5022
taaggagaca	atggccaggg	aacaccgtta	ctctaaagat	aatgtcttga	agacattctg	5082
catattatta	gttgtttctg	tgagtttctt	ttttgaaaag	caacaatagc	agccgttggt	5142
cattcatacc	ttaatgtggt	ttactgagtc	ttcctaaaac	ccaaatgaac	aatgaacctt	5202
aaggctatcc	ctttggactt	gaagaaagga	cttctattgg	aggatgaggg	tgagcagaaa	5262
gaaaagcagt	ttcacagttg	gttgttctcc	tggggaaggt	agttcagacc	attcgagggt	5322
gtagttagaa	ccatgagtgc	actattttgg	atgaacacca	ggagctaaga	gagtaacata	5382
gaggtgtgga	cagaggatta	agtcctcaag	acaatagccc	cagccccatg	ggaaatcatc	5442
tttctgctca	tgattgagaa	ataatggctc	ccttggcact	tgataacctt	tcgaagagct	5502
ttctcctccc	tactagctgg	ttccagatca	ctcttcaccc	agtcacattc	ctctcactca	5562
cttgagctgc	ccagcctggt	ctggcactag	agacatgcac	ttggggccct	cctcaaagga	5622
agaccctgag	atattctgct	tacttctact	ctgctcctgc	ctgcagggcc	agctaaagga	5682
acttttcatg	ttttctttgc	aaggaaccct	gcctggctgg	cattttagag	acaagcaaaa	5742
ggggcaataa	cttccttgct	acaaaacagc	ttcaagtttc	catagagtga	taagggaaat	5802
gagggccaaa	agacactgtt	ccccatcctg	tggcaggact	gggggcttca	ggagaaaact	5862
tggggaatgt	gtaacctctg	tgggtttgta	gcttaaaaac	actgagatcc	tgggttttct	5922
gtctttgttt	tttgcctttt	ctcttaggaa	aggagtgagc	tagggtgaca	aggggcaaca	5982
ttttttatcc	ctcattggct	ctttctacag	aggaaggatc	ttttcttcta	agataatcag	6042
cacaagacaa	tgaagatagg	cactagctcc	cagttaggta	tactaatggg	gcaaaaggaa	6102
gagcatttnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	6162
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnattttgca	ggtgagggaa	ctagaactca	6222
gaaaaggtac	ttaatttccc	caagattaca	tagttattag	gtgacaccgg	caagatttca	6282
acaaagctaa	tgtcctttct	actttactgt	gctaccatga	tgatggtaat	caaaaatggc	6342
agacaaccca	taaatcttcc	aactttggaa	taggtttttg	cactgaagtc	tgaatatgga	6402

FIG. 3E

tacgtattga	atgittatte	tggatattca	cagaatcaaa	aaatatgtgt	aatgaattat	6462
gttgctgaat	taactgaaag	gaaagtaaaa	atgtagcgct	ttctcatttt	cttcacgaat	6522
ttggaattct	tttctgcttt	ccactatgca	gataacatca	gttcagacaa	atattaaata	6582
cctacctaaa	ttagaatgcc	ttctcctcat	gggattttt	taaaatcttg	tcatttcatg	6642
tctctttaat	taaagagttt	tgatttcaga	ggagggtacc	tgcaaaagaa	aacaacaaaa	6702
aaactaaagg	atctgagaaa	taattagtgt	ttacttctgg	ggaggggagg	aggtctggga	6762
tgggggtaaa	aaggatagtc	ttatctatta	tgtatattca	ggtttttgtt	ttttacaaga	6822
agcatgtatt	aggnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnca	agaaatttct	6882
catataaaaa	tatgaaagta	atcagactgc	aacactcagt	gcctgagaca	gagctacagc	6942
tatcagggtg	tccagacaga	cagaagatta	cattttcttc	cttgctcctt	gtacagcccc	7002
agacctgcat	gcttcattga	aaagaaaaga	agatacctga	attaaatcaa	tgtgatgctt	7062
agtaccctat	cagtgcacat	ttcttttcnn	nnnnnnnn	nnnnnnnnn	cacttnnnnn	7122
nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	7182
תמתמתמתמת	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	7242
חחחחחחחחחחח	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	7302
חחחחחחחחחחחחחחחח	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	7362
חמתחתחחחת	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnca	7422
cttatggcgg	tattctcagt	cattacaaat	aaataaaaac	aatccatatg	ccctggagaa	7482
tttgattcca	ggagtaggtc	tagaagaact	tcaactggag	aatggataga	gaaatcatgg	7542
tatatttgca	gnnnnnnnn	nnnnnnnnn	nnngatagca	tgtgaataaa	ttaattacaa	7602
aaacatatga	ctacatctat	tattatatag	catgtagata	aattacaaaa	acatgtaact	7662
acatctatga	atcttagagc	ataatattga	gnnnnnnnn	nnnnnnnnn	nnnnnggcc	7722
agaagataac	acatagcaca	atgtcctttt	cataaataaa	tatattgctt	aagcatacct	7782
catatataga	agataaagct	taaaaagtaa	agaagag			7819

FIG. 4

attatcactt	atgagggtgn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	60
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	120
nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnctgcc	180
ctttatttt	tcatgaaaga	aattgctgaa	gaggactaaa	agaagtttta	gtaagcattc	240
aataaatgta	tgttctttat	agtttccaaa	tcagcaaata	tagacatcct	gcatttttaa	300
ggagatttat	atattttatt	ggacatgctg	taatttattt	aaccacttcc	ctgttggtag	360
acattatttc	cattttcttc	tgctagatta	atgcttgaaa	aaaatgtgtg	cctcctaaag	420
actgtgatga	aagttgcctc	tgaataaaac	tcaaacaaat	cattaatcat	taactctttc	480
cttacttgta	tgctctttgg	atgctctact	gtgttatcta	taaaataaag	tttgaagtga	540
aaaattaggg	taaaacattt	tatatcattt	ttaaaggata	tatacatgga	tgtacttaca	600
tatgcatgtt	taaatttata	taccataaca	tttatttctt	tttttaaaaa		650

FIG. 5A

tatatttgtt	ttttttctta	catttttatt	tcaaaatcta	aggacatctt	ataacccaga	60
aatattttt	ataccttgtc	atgtcttaga	ggaaagagcc	accccagtct	tttttcattg	120
atgtttttct	tctctcttcg	tactccagag	gtagatgaaa	accagagggc	cacaatgacc	180
atggtgatgc	ctgaggtcat	tctggggcac	agacctcagc	ctaggttact	ccacttcgcc	240
tatctttaga	tccaaaacta	ccctgctgac	tgctgagata	aacaaaggag	aataatcagg	300
ttggggaaag	gatttctatg	cgaagacatg	tctccatgca	gtcctcctac	actgagcaga	360
gcatgagtca	ggtgcttaga	gcaggatttt	gtcctaaacc	aggaacttca	gagttttctg	420
aagaatgtgg	ctatgtaaag	caccccccca	ccccaccctt	acttctcaag	tacattacgt	480
ggcaagtctg	aaaaaactta	cacttctgtt	gttaaatgtg	ggggataaaa	tataaactta	540
gtttcaagag	gaagctatct	tgggaggtaa	tgcaaataat	tcgttgtgtg	tttcctgaat	600
aagtgacagg	tgctgactac	cattgatgct	tcattgcaat	aaaatgcaaa	gctcccccaa	660
gaatttttga	aatgcatcaa	gctaggtgtt	ctaatctagc	aaaaggacct	gcatacatga	720
atttttcatg	cttttgccaa	gtcttttgcc	ctttagttta	gttaagggcc	ccacatgaat	780
ggaaagcctg	tgttgtcagc	ttaattttgt	agttgtggaa	accttccagt	tttctccttt	840
gtctaatacc	ttcaggagtt	caatcctagg	ttgaagctta	atttaataac	catgtggcat	900
gtaaagtaga	aaacaaaaca	tctttcctt	agcatacagc	aaaaaaaaa	aaaaaactca	960
ctcatggatg	tagtgtacac	atgccagtgg	atatatagtc	ataactgcag	tcattggtag	1020
cacagaaata	aatgtgcatt	gaagacacag	agannnnnnn	nnnnnnnn	nnnnnnnn	1080
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	1140
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnngg	1200
gctagcccag	tgtctgactt	actgtgttta	agaaatatca	actattacgc	tacttcccag	1260
tgacagtcca	aatgcagacc	agtgttataa	ctctacnnnn	nnnnnnnn	nnnnnnnn	1320
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	1380
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	aggcaaggtg	1440
gtaaaagacg	cttgcacgtg	caaatgttac	tttgtgtaac	tnnnnnnnn	nnnnnnnn	1500
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	1560
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	1620

FIG. 5B

nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnct	tagtgaatct	aatttgcagc	1680
tgggcttgag	aaaaaacctc	ttcatagaat	tgtttgcatc	agtgtcttga	ttgcctctgt	1740
aacttacaat	aagcaagaat	gtttcaggat	ttcaaaaatc	tattgcattg	cctaaacctc	1800
ttattttgta	tggagtaatc	aagctcaaag	tttgcatgtc	ttagaaactt	tacttggggc	1860
aaaattagac	caagtaacaa	ttaatcttct	aggtattctg	agctattcag	acatatgatt	1920
catgtttgct	aattgctctt	ttctcttgta	aatattagct	gaaaaatgtc	acctgtctga	1980
caagtagcat	attttatgcc	tatcactcct	ggcacgcatt	cttacaaggc	agacaggaaa	2040
aataggaaga	aaatggactt	ttatcaaagg	cccaggcagt	aaagaggga	gttctgctgt	2100
aagctaaggg	gagttccaga	ggaagttata	ggcgttccct	ttcttatgac	aagaaagcat	2160
agtgcagtaa	ataaatttgc	taaatagatt	caacagtctc	tacccaaagt	catctattta	2220
attcttgttg	ttatgcagac	tcagcaacta	accttccttg	taagccccat	tttcttccct	2280
gtttcctgtt	tatcaaatgt	aattaaacaa	gagaagtatt	atagaagagt	aaaagtagta	2340
ggtaattctt	gaacttggca	tatgattact	acatatttga	tgaatagttg	aatattattc	2400
ttcaaggaca	gattggattt	ggtatcaggt	ggctctgcat	taagttataa	gggacttaat	2460
aactcaagta	tttaaggacg	gcttccatca	taaagggatc	tgcccttaag	agggtcccat	2520
tatggagatt	ctgaggtgag	agctattcca	agtgtgcagt	ggattaaaat	aaaagaatca	2580
tacaggaaat	ctctttttac	atgccttatt	ccagggtctt	tgcaacctgg	cacagcaagt	2640
gcagatatga	ttagcattgt	tttacacatg	tacactcacc	ttatagccct	gcccctgtgc	2700
ccctcctgca	caaaagaatg	ctgggcacac	gtgaactcct	ctctgtagaa	aggcacatta	2760
atgttctagc	catggttaaa	acagggatag	aggcaagcca	aaaatgtcgg	tcatttgaaa	2820
taaatctcaa	gtttgtgcat	atcactatca	agtgtgctgt	gtggcaatta	agaatgccaa	2880
tttgtgtgat	cacaggcaag	ttgcagtttg	atgaaaggaa	agcagaggtg	aatatataac	2940
cagggtcatc	ctttcttct	ccctctctct	ctttctgtca	tttatttgcc	aagctcttaa	3000
ctagaacttg	ctatgtgcta	ggtactggat	atatcaaagc	aaactcagcc	tggtctttgc	3060
cttcaaagat	ttgcaggata	gtgggaagaa	aaacttgaat	cagaggacat	ctgcagtggg	3120
aatcattcaa	gcagcagaaa	acccaaaagt	tacttatact	gtgaaatctg	atcagagaat	3180
ggactgtcct	ggttagtaaa	atatcctgga	ggataaagat	tggccatgca	ttccacatat	3240

FIG. 5C

gaattaccac	tttcccaaga	attaaaacat	ggtacgaaag	aaaggnnnnn	nnnnnnnnn	3300
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	3360
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3420
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3480
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnna	aacaacttct	3540
ggaatagcta	atgcttagaa	gcagctccca	aatatttgtn	nnnnnnnnn	nnnnnnnnn	3600
nnnnnnnn	nnnnnnnn	gcaagctcta	ctgaacataa	tttgatctaa	tcttctgtga	3660
ttattcagaa	actacttcaa	gattttccta	tacctccatc	ataatgaata	cccattcatt	3720
aatgatggaa	gcagcctaat	tttgtcattt	ttcacacttt	attgatgtaa	cactaccttt	3780
actagtttgg	ccactcctta	tgctttttt	atagaactat	ttagatcaat	tcaactttta	3840
aaaaataaag	ccacataccc	ctgtggtaga	tgaaaaacaa	gtatcatttg	cactggtaaa	3900
tagagaatag	gaagaaaaat	aaatgcagtg	aaaataaagc	agtgttatca	aatcctaccc	3960
agatactgtt	atctacccgg	aagcttcctg	tttgattaaa	aggaaaaata	gccagtgtta	4020
gaggtgtgga	agtctagttg	aaattatatg	caattgaagg	attaaaatag	aattgaaaag	4080
ggaataaatt	cctctctgaa	taatttaact	ccctttaggc	tttgattctg	cctcatctaa	4140
aatcatctta	catacttcta	gtggcgtgtc	cctcacattt	tggtaaactc	tgnnnnnnn	4200
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	4260
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	4320
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	4380
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnccat	ttttcctttc	cctttattgt	4440
cagaaaatag	aaagcatcta	cagtgggctt	gtatgatgtg	gtggttagaa	atacctgatc	4500
tgattnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	4560
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	4620
nnnnnnnnn	nnnnnnnnn	ממתמממממ	nnnnnnnn	nnnnnnnn	nnnnnnnnn	4680
nnaccatcac	tggtgagagg	aagtgatacc	tggcacaaaa	atatatggat	taatcaatat	4740
ggattgaggg	aaacaaacct	ggagaatagg	atgtgaaggt	atttaagtaa	catgagctca	4800
gaccttgatg	gtagggaagt	cgaaaggaag	cattttgttc	ttatatgaca	gatgacctgg	4860

FIG. 5D

aatgactgca gggcttgggg ggtcagggac tggaggtggg agaggcctct gagagcaagc	4920
agtgctgtcc accagaagct cttgctgggg tgcccagaga ggagcaaagg gcagtcagct	4980
gcacaggagg gaatgtttgg aggagagac cacctcagat cagcgggtca agaatcccac	5040
tcttgcccag atggatgggg caaaggagaa aaaggattcg ccacgggaat gtccagataa	5100
gacaggtgcc ttttggaaaa tgggggtgag atgggtctca ggttacactt cgtaagaact	5160
ggaatgtaaa gtaaaggcag acaatgacaa aatatcttgt tttcttttca gct tta Ala Leu	5216 20
ttc aca gtg aca gtc cct aag gaa ctg tac ata ata gag cat ggc agc Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile Glu His Gly Ser	5264 36
aat gtg acc ctg gaa tgc aac ttt gac act gga agt cat gtg aac ctt Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser His Val Asn Leu	5312 52
gga gca ata aca gcc agt ttg caa aag gtg gaa aat gat aca tcc cca Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn Asp Thr Ser Pro	5360 68
cac cgt gaa aga gcc act ttg ctg gag gag cag ctg ccc cta ggg aag His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu Pro Leu Gly Lys	5408 84
gec teg tte cae ata eet caa gte caa gtg agg gae gaa gga cag tae Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp Glu Gly Gln Tyr	5456 100
caa tgc ata atc atc tat ggg gtc gcc tgg gac tac aag tac ctg act Gln Cys Ile Ile Ile Tyr Gly Val Ala Trp Asp Tyr Lys Tyr Leu Thr	5504 116
ctg aaa gtc aaa ggtgagtggt gtcaaggact agaatccatg gaagctctct Leu Lys Val Lys	5556 120
ccaacagagg atctgcaagt cacagaaacc cattaaaggt agctcaagca aaaacaagca	5616
ggctgctttt aaggagacag ctatttcaga gaaaatgaaa gcatctgctc ggaaataatt	5676
tttgacatct gagtacaaag cagccgaagt acaagtgaaa gggggtagga cctataggaa	5736
taaaatggga ctggaggaag ccaggaaaat tagtccctga aatgtgggag ggtatgaaaa	5796
ataagetttg cetaatteae aatteteeea tggaacatee etgaettgat tattaagata	5856
ctctttttca atagtttata ccctgaatcc agagttttta aaaccatggt ttgccgccca	5916
ttcatggatt aaaatatcaa tttagtgagt agcaaccaga tgcacgtttc ccgcccttta	5976
aaaaataatg tatagaagag aatagacaga gtagatcaga cgatatcaca gagtaggact	6036
gagtactgta aaactaattt ctgagggacg tgtgtgtgtg tgtgcgtgtt gggtcatggt	6096
ataaattttt tttttcttac tttggatcat aaaaagttac aagtttggaa aacactgctc	6156

FIG. 5E

aaatgcaagn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	6216
nnnnnnnaga	gtcccatgaa	gtctatagct	gtccctattc	ctctggattc	agggatctct	6276
ccactccagc	acaattgaaa	atctaaatat	aaagagaatc	ttcacactct	tgtttgttct	6336
agaaaaggtg	atttgaggaa	agacatataa	caactataaa	aaatagattt	tgcttgttca	6396
ttggcttatg	gtctccaggc	ttgaatgctc	tgagataaat	gatgccaata	tttctctggc	6456
ctcttcccat	cccacgcatt	ggacctcaga	tggtctgtac	tgtcttctag	agggtttgtg	6516
ggttttggcc	ccaaaaaacc	attaaccttg	gcagaaagtg	tgtgacttta	tgatctggta	6576
caaagaagga	caaactagag	ggactggaca	tgaggatgaa	tattgtgttc	gcccttatnn	6636
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	6696
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	6756
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnaaa	gaccctcagt	6816
tgttacaggg	gcagtgacct	cctcacacct	caaccatcaa	tgagtcacca	ggaaagccat	6876
tagcctagat	gtaactgttt	tctatcttta	ttgcatttcc	tacatccagg	cagcagctgg	6936
gaggaactct	agaacactga	agtttgtctg	agttccctta	atgtaaggct	gtacattctc	6996
aggatgcctt	gatgtactcg	aatatctgca	accctaaatc	accacctctg	tttttattga	7056
tctctatctg	aatgctgtat	taatgggcca	ggccttctgc	ccattctctc	aaactgagaa	7116
ctgtctctca	ttcctgggga	ggcaccctgc	ctactcctta	cctagatcag	ggatttctca	7176
gttgtggaga	gatttgttcc	ttatagtgtt	ggtcatcaaa	ctgggatatt	tggggattac	7236
aaagactttt	caagggatgt	atgggcacag	gcagttttag	gaagtgagtt	cctagatcct	7296
catcttcccc	aaatactcgt	tcccaaaatt	gacgagcctg	acaatgtgca	tgccaggcaa	7356
ggctcttggg	gttcccctaa	aacacttcct	cttttaagcc	taccactcac	tcatcatgaa	7416
tatagtccat	tgtcccaggg	tgtaaaaccc	tctatagtgt	taaataaaag	aatgattggg	7476
aacattgaca	cctgatggaa	ctgttatgac	taaaaaccct	tttgcaaata	atgtggtatc	7536
taattttctg	ctttcaacaa	aattgaagga	ggcccttata	aagttaataa	ctgataatca	7596
aaaatgagta	atttttgcca	tgtaaatcag	gtcaaagaat	gaaatggcat	tgctgtaacg	7656
aaactgcttc	cattcccatt	gatttactca	tacgaacaag	attccttagc	ctttataagc	7716
tacaaaaaaa	tgaaaaatag	aaatagaatt	gaggctgaat	tctattatat	aaaatcattc	7776

FIG. 5F

caaccatgtc	atatggttct	tcggattcat	gaataatttg	gaaaagagag	ccatatccat	7836
cttattaagg	gacacattcc	caataaattt	tcatctttca	tgtttaataa	ttatcaatat	7896
tcataacatt	ttacattttg	atcaaatatg	tgttaataat	aatagaaatn	nnnnnnnnn	7956
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8016
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	חחחחחחחחחח	nnnnnnnnn	8076
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8136
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	8196
nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8256
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8316
nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnattag	atcttaatgc	agaacaccct	8376
gaacatttaa	agcttcatag	tcacaagaga	aaagttttca	tttcaatagc	tataaatatt	8436
ttgttgttgt	aaagacatat	aacgataatc	aatacaaaat	ctgtcaaaca	aaaatatgtt	8496
acattaagat	aaaattctgt	agggaaggtg	aaattggaag	tgagtttcaa	tgaatgaaaa	8556
gaaacaattt	agacagagaa	gnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnncttagaa	8616
ggaattgaat	agattaggtt	ccttacccaa	aaagcctctg	ttatttgtct	tatttattta	8676
ttctcttttt	tccacattct	ccagtctcat	tccccttttt	taacacagga	aattattcca	8736
gcatgtttca	tacatattct	tttgtttgta	agagcttatt	taaaatatgt	aatattgttt	8796
tagatgcata	tattttttt	cttgtggaaa	ctatattgta	ctatatatat	atattttaga	8856
aatggacaca	ttannnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	8916
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	8976
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	9036
חחחחחחחחח	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	9096
ממתמתמממ	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	9156
nnnnnnnnn	nnnnnnnn	nnt				9179

FIG. 6A

cagarereag erricityay geagggagee ararergiri aarreaerea geararaerg (80
caaagaagca gnnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn	120
gggagaagtg cagaataaat atacccaact ctttactatg tatagacatt atctaggtct :	180
ttatttttt tetettetta ateteaaaga aaacagagga aaggaggaag taaaaagtaa 2	240
atttttgcct gaagatgttt ggaaaaaata ccaaataaag tgagatagtg ggtaatctag 3	300
tgatttttat ttttccgtcc tctttctggc ctccaattgt gaaataattt atagcactgt 3	360
aagaaagaag ccacaaattg tggtagcttg gaccactgtt gaggnnnnnn nnnnnnnnn 4	420
nnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn	480
תחתתתחתת מתחתתתחתת התחתתחתתת מתחתתחתחת תחתתחתחתת תחתתחתחת החתחתחתחת	540
תחתתתחתת תחתתחתתת תחתתחתתת תחתתחתתתתתת תחתתחת	600
nnnnnnnnn nnnnnnnnn nnnnnnnnn acttaatatt gatagtgata atttattca (660
tttcacatgg catgaagtac caagctctat aggaatcaga aaataaagtc ttatttcttt 7	720
	770 131
	318 147
	366 163
	914 179
	962 195
aat act cac gtg agg gaa ctt act ttg gcc agc att gac ctt caa agt 1 Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp Leu Gln Ser	1010 211
aagagetgee eccaetteet aggtetatea gttagggtte agacaagaaa eagatggeat 1	L070
actcgagtga tttgaggaga gtgtaataaa gggactgttt acaaaggtgt gatcaccatt 1	L130
ggagaaact acaaaggata gtgcagaaca ctggggcttc aatgttggga gggcaattac 1	L190
cactgttgga gaagttactg gaatcagaag ggagctgtag ggaaagcccc acttcccagg 1	1250
agctgtagcc acagaatagg gaagctgcca catgcagcga ctccaaaggg tggaaactgg 1	L310
atgaatgaat accecaacte attetectee cacectecaa tetectgeta geacetecea 1	L370

FIG. 6B

ttggctgaac	ccagctagaa	gtcagagaat	acaagggtcc	actgttgtat	tccataaaag	1430
tcaacttctc	agggctcaga	gcaatattga	catgtacaga	atagatctgg	agaggaaaca	1490
gaaaatatct	agtacaatag	ctaatcactg	tgattcatgc	acagtgtcat	gagccagcag	1550
gatgaatatt	cctttgctgt	acttgctgcc	agtcagctgg	ttatgggttt	ttccaagaaa	1610
tttggtctct	aacaaaattc	ttcagagcct	ttactgacta	tgctggatat	ttttggaagg	1670
gatcccatac	ttttgaactt	catacagcag	aatttcaaac	aatcttggga	aaataacaac	1730
ttttatctgc	ccagtaagga	caactaacac	ctagtatcat	aatcatttcg	taagagacag	1790
gtaatttcat	caccgagtgc	atat				1814

FIG. 7A

ccaccyagaa	gggacacacc	occagactaa	aggaoageco	ocagcaocga	cccaacccgg	00
ctttatagaa	aattcactat	attgtcattg	tatttcacag	tttgcccttt	gtcttagctg	120
gtaagacaga	gcctatgata	aggacttgtg	tggcatgcag	gtatttaatt	ggcaacccca	180
gagggcagaa	gcaagagatt	taggagttta	agagagggta	atataagagt	atattatcaa	240
agttgtagtg	tggacaacag	aaactcaaat	attcaaggac	cagcatgtag	acagcctcct	300
aagatgtcta	ctcagacaaa	gaatttcagg	tggaaggact	tgttcatctg	cttcacgccc	360
attggttgac	aggaatatga	actccattct	gctgctgggc	tagacatgca	tgtgggctga	420
gtgagctttc	cccagtatcc	gtagcatcag	aaaagtcgca	gggcagaaag	aaaagtatcc	480
aatttgaggt	gaattactga	ccttgaagtg	agtgtaagcc	taactagaat	tctaccccag	540
ctggctgaag	tgaaaggtga	ggctgagagg	aaataaggca	ggactgcaca	gtccccaatt	600
gtactgttca	aatccactca	tgcccttcat	taagtcagct	ctgccactga	gccttccagc	660
tgggaggcag	ccacaatctc	tgcagaagat	ttaatataca	ccagtttgtg	gaacaagctg	720
tnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	780
חתתתתתתתת	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	840
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	900
מתמתחחחחחח	מממממממממ	nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	960
תתתתתתתתת	nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	1020
תתמתמתמתת	חחחחחחחחחח	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	1080
תתתתתתתתת	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	1140
תתתתתתתתתת	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	1200
תתמתמתמתמת	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	1260
חחחחחחחחחחחח	nnnnnnacc	tgcagcactg	ggatagccct	ggtacagacg	tagaacatgc	1320
ttgaggaggt	tgtcaggagg	aaatgagtta	gaccttgcac	agaactacca	ccatcaagta	1380
cagttggggt	gaggcagaca	tggtatgagt	tgaggcatca	gagatatctg	atgctttatg	1440
ccaaattaaa	attaattttt	tcatggagtg	acactgatcc	acagaccaga	ctccaagaac	1500
tttgcagtga	ctaaataccc	atctcatcat	aactttcctg	gtattttctt	ctggaaaaaa	1560
ttcttccctg	atacagtttt	cagaggcagc	tagatgcact	gtcatctctc	cccttttccc	1620

FIG. 7B

acttccctac	ctatccacaa	tttactaccc	aatgccaaca	ctaaagttag	cccaacttcc	1680
ttctaactaa	attattagtt	tagaaggaaa	gagaggagtc	atgctaagga	tcttaactgn	1740
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	מממממממממ	nnnnnnnnn	1800
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	1860
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	1920
nnnnggggag	aggagggag	aggaggtagg	gaggggaaag	aaagaaacta	gaaatccatc	1980
aattttagga	ccaacttcag	gtaaaaaaat	gaattaggca	agttggtctt	tcaacattct	2040
ctacctctct	ttatatcatg	gttgagacca	cagacttctc	acctcatgaa	agatgaactc	2100
taactaattc	atactaaagc	taaagcctct	aaagaggatt	aaatatgagc	aatcccacga	2160
gaacttttt	cccctggaat	tgtttattca	actgtcgttc	gttatatgga	atttcctgcc	2220
tggttaagtg	taggccagta	ctttggatga	attgtagttt	tctagaaaga	cgcttcttat	2280
ataagaacct	ctccagggaa	acaggggcct	gtatgagatg	aattgagaaa	taactttaca	2340
ccactgatta	tgtcagtgtt	ctattctgca	tggtagagat	gtgaaagggc	agactgacca	2400
ttgctctgga	agcctttacg	ctgtgagaag	ttaacagtgg	agtaaaatgg	ccactccact	2460
ctcttcatgg	aagccaacat	ggcttactaa	atagtcaaca	accatgggag	agacctgtgg	2520
ggtcttcatc	agagctcagg	atctcctagg	gtatcactca	taaatacagc	catcagggag	2580
atggagaaat	ctttgtgcag	ccagaaattc	tcaacctggt	tttacccatc	cttcccaact	2640
ttgtattcgt	cctactgttt	actgacatgg	atcctctgct	tcattaacca	tecetteete	2700
accacatgct	ctctgaactt	ggctgcacct	tttctacctc	catgccttct	ttgctcaggt	2760
ttttccacat	aaatatcatt	atttccctct	ctactagctc	caagcccacc	ctctctctgg	2820
ggcagctcag	tcactccagg	gcacaagggg	gtctttccct	catcccacat	tttgagacct	2880
actacctgga	ccatttgttt	gccttgtaac	tatgcttgcc	ttttaattg	ctattttatt	2940
ttccatgtat	tttcattgtt	cacacaagtc	ttctttattc	cacactaagg	caaaagcaga	3000
gtcctgtgtt	cataataagt	gctcaacaaa	tgttgggttg	attgggttgg	agattccatc	3060
ttagataatc	gcagtcccat	catgccagct	accagactgt	gtggacagcc	aggtcagagc	3120
agccaaatga	tattctagct	tgtggcacaa	ataccagcaa	caaaataacc	aaagtcacac	3180
atctgcctct	gagttcctgg	cttctatttc	tcaagggcat	ttttaagttg	tcttatgact	3240

FIG. 7C

gttccctttc	tactcattct	cataaattga	gctgtggact	gctgtgaccc	acaagcttct	3300
ccggaagtca	atgtataaaa	caaacacgga	aacgaagagt	atggtgggtg	gagggtactc	3360
cactgactct	agaatggatg	actgaacatt	ccaaatttca	agcacaagtt	agggagcaac	3420
agatcatttt	ccttttgaaa	tagggtttct	tctgctcagc	cagttgttgt	attttcatta	3480
ggaaatggaa	tgggactaca	gcacaaaaaa	taaatataaa	aggacccttg	tagggctggc	3540
agaaaagaga	atccttccta	ggagacctgg	aggtgattcc	aggcnnnnnn	חתתתתתתתת	3600
מממממממממ	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	חתתתתתתתת	3660
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	מממממממחמח	nnnnnnnnn	nnnnnnnnn	3720
חחחחחחחחחחח	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	חחחחחחחחחח	3780
nnntcagaaa	gtgtgcaaac	agtaaaaaaa	aatggtatat	ctagcaagtt	gcatgcctta	3840
cttgtgagtt	catgaagttg	tggcaaggat	aagacaaata	ttttttgcca	ttgcatcatt	3900
atatcattgc	taagagtatg	ccattattnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3960
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4020
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	4080
nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4140
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	4200
nnnnnnnn	nnnnnnnn	nnnnttaatt	aattaaatta	aagaaacgac	aaaagagtat	4260
gcaagaattt	taaaacaact	tagaggaata	tgtatgagga	tacaggctaa	gctaccataa	4320
tgaagagacc	tcgaaataca	gtgagaagcg	agacagaagt	atctttcgtt	ccatgtaaca	4380
ctcaggtggt	tcagagcagc	taagcagcta	tgttccatag	agtcattcag	tgatccagat	4440
tattttcatc	tgttgctctg	ccattctcca	ggatgttgtc	cctataaaat	tgtcaaagct	4500
cagtcagtgc	caaacccatg	tttcaacctt	cagaaagtaa	acgagtggtg	gaaaacacat	4560
tcaatgtttt	aaggccaaga	ccttgaaaac	tcactctctt	agcctgaact	tagattacat	4620
ggctgggccc	acttaactat	aggggaggct	tggaaacata	gtctctgaga	agccatgtgt	4680
ccagctaatt	ccctaatact	aaagttgaaa	gaaagaatgg	attaaccagc	agtataccac	4740
aaggtaacaa	atgactagga	ggatcaggct	aggtggacta	gaaaagagac	agtcaattca	4800
gtgcaacaat	tccatattga	cacttttcat	gtagctgttg	cttggctcta	tctagagagg	4860

FIG. 7D

actcagaggt	agtttagata	aggcctttgc	cctccaaata	cagtctaagc	agactgattt	4920
cctactggat	gttcaacttt	ggagtcttca	gggatgagta	gggcttctgt	acgtggaaga	4980
gactatgagg	gaacctgcac	aggacaaggg	tttgcataaa	gacactgagg	tagggacctc	5040
tcctgttgtg	gggacagtga	gaggcccagg	tctccttgac	tcacaaagtg	cttactaagc	5100
acttactaga	aattaagaag	cagattataa	tcaatatggg	ttatccaatg	tttggatgag	5160
caaggctcct	tatctttct	tcgttaatgt	taatcacact	cttttggatg	gagacaaata	5220
tctgtggggg	ctnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	5280
nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	5340
nnnnnnnn	nnggctcaga	ctaaataatg	tctaatctct	tctccagtaa	aacaatccgt	5400
ggttctcaga	tagcactgtg	ctggaggtag	tggggtttga	gggctgggaa	gttgggagga	5460
ctgagccctt	cccgctgagc	agtttcgtcc	agtttttcct	gtaccagcct	gtcatgttta	5520
ttccatgtga	atgactccag	aggcaaaatt	caagcttttg	aatagggcac	aaattaactt	5580
gagtaccctt	tcatttccct	gtaggtgaac	actcctctag	ccctgccttt	tgtcagtctg	5640
gagcccttgt	tctaatctgt	acacaccaga	ggactttaca	aggetttece	cagcctccag	5700
aattattctt	ctgatccacc	ctctactaaa	ctcacccttt	cctcagtgct	aggacgttga	5760
aaaaccgaaa	caaggcaaag	ggccaattgt	aataattcac	actaaggcat	gagtgactag	5820
gtttagtata	ttaacactac	ctaggatatt	ctatttcttc	caaaaggatc	ctgttaatcc	5880
ttgaaattta	acaactaatg	gtatagattc	taagcactgt	gagtacttgt	cagtggggga	5940
aagacatttt	tgggctgaga	gactttgcca	ctgnnnnnn	nnnnnnnn	nnnnnnnnn	6000
nnnnnnnnn	nnnnnnnnn	מחתתתתתתת	aagaaagatg	attagatnnn	nnnnnnnn	6060
מתתתתתתתת	nnnaaaaaat	aacatgagag	nnnnnnnn	nnnnnnnn	nnnnnnnn	6120
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnn	6180
חחחחחחחחחח	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	6240
מתמתמתמתח	מתתתתתתתת	חתתתתתתתת	nnnnnnnn	nnnnnnnnn	nnnnnnnn	6300
nnnnnncaca	gagctagccg	tgttggctgt	cacccactca	tgtggccagc	ctgttggtct	6360
acctcttagt	tgccatgtaa	caggattctg	gtgcttttcc	tttgcccagg	t cag atg Gln Met	6417 213

FIG. 7E

			Leu Leu His	Ile Phe Ile		229
			gcc aca gtg Ala Thr Val			6513 245
	t caa aag c s Gln Lys L		tca aaa ggta Ser Lys	aagtgag tttt	attcat	6563 255
ggtaacccaa	tgcactgggt	gtctgcagca	tgagccactg	ctttgcactg	caggcctatg	6623
gcttgctgct	ttcatgctaa	acccactcag	agcttatgaa	ccactttgag	cttgtcttga	6683
tgattatttt	tccccagaag	aaaatggctc	tcatcgtcag	tgagctgaac	ttcttacact	6743
gagttttta	aagggaatgt	tttgttctta	tgtctgaaag	agtttgtctt	attctttgag	6803
ccaagagctt	tcatcagcct	catgagagtg	atgttatttt	ggcaatgcag	agagctacgt	6863
gctccgattt	tgctggtggg	aggttgccag	gatcctttct	gaggattcct	tccattttca	6923
cccctctttt	ccccagtctg	gatatgacct	gggttaaacc	caccccctct	cccaggaatc	6983
tcaacctcac	ggttgggtaa	ggaaaggaga	aaggtttgtg	aggccatttg	gggataagga	7043
aacagctggt	tggtggtgca	ttaacgtctt	tcagcagctc	ccttcgagtt	tctccttagc	7103
ctgttgtatt	cttaccaaca	cactcctgtt	ctgttgtacc	agctgggaca	gagcatgctg	7163
aagcctttca	gccctgattt	cattgcttca	ttgttcatgt	gtctgtcttt	ggtttcctgg	7223
gtggagcctg	cccacaaaac	ccccagaatg	tatgcaggcc	tagctggtgc	tttcctaaac	7283
ggctcccttg	tctgcactca	atgaacttct	ccaaagatct	atacatggcc	tcatctatag	7343
aaagagaaat	gacatgtgga	aataattcag	taggagtttg	cagcagcact	atctgaggac	7403
taggggaatt	ttaagtggtt	gttatcttac	atttatactc	ataacttcta	tattttcatc	7463
tgccataaaa	tattgtcatg	ttctatttgt	ccattgccct	atgtgtgtat	gtattcactt	7523
gggtgctgac	cacaatattt	ctaactgtag	aatgcaagga	attgttgcca	aannnnnnn	7583
חתחחחחחחחחח	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	7643
nnnnnnnnn	nnnnnnnnn	מתתתתתתתתת	nnnnnnnn	nnnncttca	tggtaaagga	7703
ggaggtatgt	ccaacagaac	ttcgactttt	aaatagaacc	acttcagaga	gttgtgtcag	7763
gtgcacctca	gttgtcttat	cttctgccat	tcttctttta	cctctcacac	ccatacctca	7823
gggttcaagg	cctggggcct	gaggactcct	taataacttc	agaaatgagc	agctgagtgt	7883

FIG. 7F

tccgttccag	ctgtctttgg	gagaatggaa	tggagtcaca	ctcaaagata	gagtggaaat	7943
aaatcctctc	ctcatccttc	accccaatct	taagagtgag	tgaggatatc	agtagctccg	8003
agctgggagg	taaagctcaa	gttctaactg	tgattaggag	acctttctta	caaataagaa	8063
ttaagtgaat	aaatgtgcaa	acaatttctt	ttatattttt	aatgaaccag	agagaaatca	8123
tggttgccta	tataaccctt	gtctccaact	cacttgcatt	cagatctgct	ttcttacatg	8183
tgtctgccat	gcacacaaac	ttgtgtgcca	tggaaaaggg	ttgagaactg	ctggtgatgc	8243
agacagagct	ttaaannnnn	nnnnnnnnn	מממממממממ	nnnnnnnnn	nnnnnnnnn	8303
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	מממממממממ	8363
nnnnngcagc	aagagaagga	acattttaca	gcttattggc	cgaacttcac	tgccgctagt	8423
gtggttcaac	ttggactaca	gagaaatctt	cctaactggt	ttccctgtat	tcactcctgc	8483
tacctccaac	ttggtctgtt	ctcacttttt	gctataatag	gcttttaaaa	atcataaatc	8543
taccatgtgt	cctctgtcca	gaccttctcc	atggcttctt	attgctcact	ggatgaagtt	8603
ccaacgagcc	caggatggtt	tgactcatgt	ctccagcttt	aactgcatca	ccatcacctt	8663
cattgtctaa	agctctaacc	acacaggatt	ttctagtcct	cagaggcatg	gcagtctttc	8723
aattccgagt	tttctcatac	aatattgtct	cttcttaaaa	tatttttct	tgttgtccac	8783
ctgagttgga	gtcatctttt	aaatctcagc	taagcttata	cttcatcaag	tctttcctaa	8843
ttctacctcc	acgcaccaca	cccattacat	taaatcccct	tattatatgt	ttccatagca	8903
cctactttct	tcttttcagt	atactcagca	cacaatcaca	tgtctaggat	ctgttttaat	8963
agcttggact	accaattaaa	ttgcatccct	tttaattgtc	cattgattcc	tcaagtaccc	9023
acatgcccat	cttagcaaga	agttcagtgt	ctccctctta	tagcatgtac	ttctccacct	9083
cccacaaact	gccagaaagc	ttacttagcc	cacagggcca	gtgctaggca	gctaggttag	9143
tcctccagag	ggccctggtt	ttgagcagtt	gctgtctact	ccggccatgc	agaatctctg	9203
gtccttccag	atgtctccat	ccactgtgca	aaggtaacct	tgctggttcc	gatccccaca	9263
cagaccacag	tgctacaaga	ttacagttct	tatggttccc	caacacatgc	tctgtcattg	9323
gtcccaaagc	aggaccccta	tgggttgatg	aggtaggagg	aggtccctgc	cttagccaca	9383
gctgcacaca	gccagcctct	tcccttctag	gccctcatgt	tgagcctggg	acgccagtcc	9443
taacttcctt	ctcttcagtt	cctcttaggg	ccattggtat	cctgaatttc	ttagtccatt	9503

FIG. 7G

gcaaagttaa	gtaaagaagc	agcaggcttg	gtccctttcc	ttccagatgg	cttcttagct	9563
cctgaacaga	tttacccacc	tatacctcag	tgactagctc	tgtgtactaa	agtgtattgg	9623
gagggcagcc	attattggtc	cataaaaggt	cctgcttacc	attttcccct	aagaggaacc	9683
attcaacagt	ttggggctcg	agggtgacct	gctgggctct	agagaagaag	ctggcaactt	9743
ctgttgcaaa	ataatgttaa	attctgcttc	atctgcttgt	cttnnnnnn	nnnnnnnn	9803
מתתתתתתתת	nnnnnnnn	nnnnnnnnn	ממממממממ	חחחחחחחחחח	nnnnnnnn	9863
nnnnnnnnn	nnnnnnnn	nntaaacatt	gaacctacta	tatgcaggtg	agtatgctag	9923
atnnnnnnn	מתתתתתתתת	מתתתתתתתת	nnnnnnnn	nnnnnnnnn	nnnnnnnn	9983
מתתתתתתתת	מממממממממ	nnnnnnnn	nnnnnnnn	nnnnnnnnn	מממממממממ	10043
nnnnnnnn	מממממממממ	nnnnnnnn	nnnnnnnn	nnnnnnnn	ממתתתתתתת	10103
nnnnnntgn	nnnnnnnnn	nnnnnnnnn	מממממממממ	nnnnnnnnn	nnnnnnnnn	10163
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	ממתמתמתחת	10223
nnnnnnnnn	nnnnnnnnga	tttgaataca	ggtctgtttg	actccaaaac	ttgtggccta	10283
tttgttgcaa	aagtgcttaa	tacaaattgg	ttcagtcaat	attattatct	ttgaacaatg	10343
gaaggagaaa	gtaagtttca	atccaaaata	attgagtgac	ttatacattg	acttgctgag	10403
ccaatggcaa	agtcaagtta	gaatccagca	gaagtcacca	gctacagaat	ctagatcttt	10463
agaacatgtc	ttcagatctt	cagaacagtg	tttcttaaac	tctcttgtga	aggaacagtt	10523
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ggcacagccc	tagaagattg	agccagaatt	ttacagaggt	ttaaagacca	aatatgctgg	10643
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cccactgaag	ccaacattca	agagcaattc	ctatgggtta	accattgggc	tcctttcaaa	10763
tgcaaaccct	catgaaagag	actacagtgc	tgaatagaga	cctccaaatt	ccaggccaag	10823
ctcaggatag	tcatgaggga	attactaaaa	acctggtata	tagggcaaaa	gcagaattag	10883
gaatggactg	atttcaggaa	cccaggcaat	ggcaggagtt	gggcattaaa	tcctaaaaga	10943
gaatcagagt	gggagggaat	atgtgaaatc	agaggttaag	aaaaaagtga	aaacctnnnn	11003
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	11063
nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11123

FIG. 7H

תחתחתחתחת התחתחתחתחת התחתחתחתחת התחתחתחתח	3
nnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn	3
nnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn	3
nnnnnnnn nnnnnnnn nnnnnnnnn nnnnnnnnn nnnn	3
nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn	.3
nnnnnnnnn nnnnnaaaaa attaaaagaa agatgtgaaa tcaaggaaac ttactggtga 1148	3
gcagcatccc attatgtgaa cttgtgcttc tgaaccagta acttgagtta ctttgagcca 1154	3
gtatcagtca cttatacctt agtgcaaaat taattgatca gacattctga cctggaccag 1160	3
ggaaggcagg cagaagtagc agtcaagact aaagcagaaa agggagagct aattctgcag 1166	3
ccagacattt cctggattga atacccaaat tagtccctca gcctttaagt gcctgagggc 1172	3
caggagtaga cagaggaatg gaaagtgtga gacttctttg ttcacactct ttgcctaggg 1178	3
gccagatttt gctttatgca ttaccatccg aagtcccagg ccacagtgaa catttgggct 1184	3
tcgctatgtg gatttattta gatttacttt ttgtcctgcc atattttaat ctataagcca 1190	3
aacagttttc tcattaatct tattccattt ctggaatttt tccttttca gac aca aca 1196 Asp Thr Thr 25	
	8
Asp Thr Thr 25 aaa aga cct gtc acc aca aca aag agg gaa gtg aac agt gct 1200	8 3 2
Asp Thr Thr 25 aaa aga cct gtc acc aca aca aag agg gaa gtg aac agt gct 1200 Lys Arg Pro Val Thr Thr Lys Arg Glu Val Asn Ser Ala 27	8 3 2
Asp Thr Thr 25 aaa aga cct gtc acc aca aca aag agg gaa gtg aac agt gct 1200 Lys Arg Pro Val Thr Thr Lys Arg Glu Val Asn Ser Ala 27 gtgagtaagc atgatttta cttttcttc ttacttctt ttctctcca gcttgaattt 1206	8 3 2 3 3
Asp Thr Thr 25 aaa aga cct gtc acc aca aca aag agg gaa gtg aac agt gct 1200 Lys Arg Pro Val Thr Thr Lys Arg Glu Val Asn Ser Ala 27 gtgagtaagc atgatttta cttttcttc ttacttctt ttctctcca gcttgaattt 1206 taaagtaacc actgttctat taattcatgg aaggcaactg aatagttcca gcttatagaa 1212	8 3 2 3 3 3
Asp Thr Thr 25 aaa aga cct gtc acc aca aca aag agg gaa gtg aac agt gct 1200 Lys Arg Pro Val Thr Thr Lys Arg Glu Val Asn Ser Ala 27 gtgagtaagc atgatttta cttttcttc ttacttctt ttctctcca gcttgaattt 1206 taaagtaacc actgttctat taattcatgg aaggcaactg aatagttcca gcttatagaa 1212 tcttcctgtt tggtagcatt tcagcgaagc ctcgttctta gccccagaac aatcatgcca 1218	8 3 2 3 3 3
Asp Thr Thr 25 aaa aga cct gtc acc aca aca aag agg gaa gtg aac agt gct 1200 Lys Arg Pro Val Thr Thr Lys Arg Glu Val Asn Ser Ala 27 gtgagtaagc atgatttta cttttcttc ttacttctt ttctctcca gcttgaattt 1206 taaagtaacc actgttctat taattcatgg aaggcaactg aatagttcca gcttatagaa 1212 tcttcctgtt tggtagcatt tcagcgaagc ctcgttctta gccccagaac aatcatgcca 1218 tcttttgctc ggtctatatt cctaagcact cctagatgat actgcactgg acctctggtc 1224	8 3 2 3 3 3 3
Asp Thr Thr 25 aaa aga cct gtc acc aca aca aag agg gaa gtg aac agt gct Lys Arg Pro Val Thr Thr Lys Arg Glu Val Asn Ser Ala 27 gtgagtaagc atgatttta ctttcttc ttacttctt ttctctca gcttgaattt 1206 taaagtaacc actgttctat taattcatgg aaggcaactg aatagttcca gcttatagaa 1212 tcttcctgtt tggtagcatt tcagcgaagc ctcgttctta gccccagaac aatcatgcca 1218 tcttttgctc ggtctatatt cctaagcact cctagatgat actgcactgg acctctggtc 1224 tcacatagtt agaaacagag ttaaaatcga acagcaaaga gaagatattc aactgcgatg 1230	8 3 2 3 3 3 3 3
Asp Thr Thr 25 aaa aga cct gtc acc aca aca aag agg gaa gtg aac agt gct Lys Arg Pro Val Thr Thr Thr Lys Arg Glu Val Asn Ser Ala 27 gtgagtaagc atgatttta cttttcttc ttacttctt ttctctca gcttgaattt 1206 taaagtaacc actgttctat taattcatgg aaggcaactg aatagttcca gcttatagaa 1212 tcttcctgtt tggtagcatt tcagcgaagc ctcgttctta gccccagaac aatcatgcca 1218 tcttttgctc ggtctatatt cctaagcact cctagatgat actgcactgg acctctggtc 1224 tcacatagtt agaaacagag ttaaaatcga acagcaaaga gaagatattc aactgcgatg 1230 caattgacaa tggatgttt tgcaacaaac aatgattaag aagtacattg ttgtgggctc 1236	8 3 2 3 3 3 3 3 3 3
Asp Thr Thr 25 aaa aga cct gtc acc aca aca aag agg gaa gtg aac agt gct Lys Arg Pro Val Thr Thr Thr Lys Arg Glu Val Asn Ser Ala 27 gtgagtaage atgatttta cttttette ttacttett tteetetea gettgaattt 1206 taaagtaacc actgttetat taatteatgg aaggeaactg aatagtteea gettatagaa 1212 tetteetgtt tggtageatt teagegaage etegttetta geeccagaac aateatgeea 1218 tetttigete ggtetatatt eetaageaet eetagatgat actgeaetgg acetetggte 1224 teacatagtt agaaacagag ttaaaatega acageaaaga gaagatatte aactgegatg 1230 caattgacaa tggatgttt tgeaacaaac aatgattaag aagtacattg ttgtgggete 1236 tgagtcaaga gtaatatggg aaaaacacaa gtetetteat gaggttgaca ggtttggage 1242	8 3 2 3 3 3 3 3 3 3
aaa aga cct gtc acc aca aca aag agg gaa gtg aac agt gct l200 Lys Arg Pro Val Thr Thr Lys Arg Glu Val Asn Ser Ala 27 gtgagtaagc atgatttta cttttcttc ttacttctt ttctctca gcttgaattt 1206 taaagtaacc actgttctat taattcatgg aaggcaactg aatagttcca gcttatagaa 1212 tcttcctgtt tggtagcatt tcagcgaagc ctcgttctta gccccagaac aatcatgcca 1218 tcttttgctc ggtctatatt cctaagcact cctagatgat actgcactgg acctctggtc 1224 tcacatagtt agaaacagag ttaaaatcga acagcaaaga gaagatattc aactgcgatg 1230 caattgacaa tggatgttt tgcaacaaac aatgattaag aagtacattg ttgtgggctc 1236 tgagtcaaga gtaatatggg aaaaacacaa gtctcttcat gaggttgaca ggtttggagc 1242 tggaatctgt ggaggaggaa ggatatgatc taggggtcag aagaagtggg ttactaaaat 1248	8 3 2 3 3 3 3 3 3 3 3 3

FIG. 7I

nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn
nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn
nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn
nggcaccaag agatgagggg ggcagtcttg gccatatatt tggctgaagt aagtcaattt 12903
gtcattcctg catgagcctt tataaacaga agtaagtaac caactactat ttggtcattg 12963
gagttgtcca agaggccagg gttctgtcta atacctgttc atgcatgaac atgccaacct 13023
agattgcatg cagactacca gttttgggtt tttgtttagt tcagcaggat ttttctcagc 13083
tcactgcctc tcaaactttc agcaacaaaa ggacatctgt gatatcagaa tctaccactc 13143
taagtatttg gatgcaatag caatgaatat ctgagtaaat ctaggtgggg agtgggggca 13203
ccctgtagcc aaaatgattt aacaaaatca aaccaaaatt ttggaaatga tgccttggta 13263
caatgaagag actacttgag gtaggtttga cttatctaat atcttatttt ctttaccaat 13323
acctaatgag gaatttaaat atttctagat agctttggaa aggtccctta aagaggcacc 13383
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cttgtctcta tagatcatat caaatccttc ccagagtttt tcaggccttt tgacaactag 13503
ccacatttca ctaagccaac tcatctacca ctcttcaaca aaacttttcc tcaagttgag 13563
ctgctccacc aacaccactg ccatgagete atteccaett etgtggettt geteatgttg 13623
gttatttttt tggagtgtcc tccctattcc ttcttacttg tcccaatccc aacttttggc 13683
atggtctact ttaagataca gtaatgagta actttannnn nnnnnnnnn nnnnnnnnn 13743
nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn
nnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn
nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn

FIG. 7J

caacactctc	ttgcttaatc	tgtaagactc	tctccccca	c tcataccttt	: ttattttcc	14343
tctgcattgt	acacacaatc	tataccactc	ttaagcacat	gattacagcg	r ttattttctg	14403
gctgcttcta	tgtgtctata	ttttaggtcc	acctggtcaa	a tataataaag	tgggatatta	14463
gtgttaatgo	c aactatatgg	tatttgatat	ttgtctttct	gtccgtttat	caatgtttct	14523
tatagnnnnn	nnnnnnnn	nnnnnnngg	tgtctgattt	tgaccaaatt	tgactaaata	14583
cnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnngt	: tgagtctatc	aactcaaaaa	14643
agaataacct	acaacaataa	caagtttcag	aacattttt	aaattactga	ttttatgagn	14703
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnngaat	ccattgccta	14763
gaaattgcca	tggttaagat	tttaatattg	ctcaggccca	gacageteag	ggctttgaca	14823
ttcccacacc	cattctctgc	catcccagtt	ctatctcatc	ccaaaaccat	ccattatgag	14883
gagagtgtac	agctctaggc	tgcccgggag	ccatcccgca	ctctcatttt	gtgactcggc	14943
atcttgggag	atggagtctt	gggacttagc	ctggacatgt	cccttgcatg	tacttcttac	15003
aagactttta	ttcagatgaa	tattttccct	tccaacttaa	gaagcacagg	gcttgctggt	15063
tttgcttcac	taaccagcaa	ctgaagcaag	acctgacttg	tgaaaatgcc	taatagagtt	15123
cagtattagc	gctgtttcac	catttcctgg	atctcttgcc	tttgtgcaca	tgatagaatt	15183
gcacttctct	gtgattaatt	tgtagttaag	tgtggtcatg	taactcgctt	tggtcaatta	15243
aatgtaagca	taagtgatgc	gtgttatttc	tgggtagaag	atgtaagagt	tggcatatgc	15303
tttgccatat	tttctttatc	catctggcat	ggtaaccagt	aacattctag	gtagtaattg	15363
ctccatcagt	ctcagtctct	gagtgactaa	aattgacaga	gtcccctgct	gaccctcaat	15423
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tgttcctaca	gcattaccta	gtttactcta	atacaacatg	gaaaaaactg	gaacctataa	15543
	ctacgttgcc					
	ataataaaaa					
	taaaaatgtt					
	atgaaaatgc					
	tgttttctga .					
tattactttc	aaaaagaaga a	agaatacttt (ctgaagccat	ttcaaccatc	cccactcacc	15903

FIG. 7K

tctctagato	ccagtaacca	aatacattat	ataggactct	tcatcagtco	ttatcaagtt	15963
taggaagggc	: gatgctatac	cttctttaaa	ggacacctac	caatgtctta	gttgcctttc	16023
aaagactcct	agcacagcta	aatgtgatgg	atatgctcta	aggatataag	agctgaagtg	16083
acttgcataa	ggtcatatca	taacttactg	ttagaaatgg	agctagaact	cagacccact	16143
gagtccttgt	ctgtgacaca	ctgccctttc	catttgtgga	agttgttctt	gtatctaact	16203
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tagttattac	agtcatcaag	ccttggttag	agtttacaga	ccatgtatcc	tagctannnn	16383
nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnntgaaaca	16443
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nnnnnnnn	nnnnaaacct	gtattaagtt	tctgttattt	gcaagaccct	gtcagttagg	16563
ccatgtggga	actagaagga	tgaatttatc	agtcatccaa	gattcttaca	attaagtatt	16623
accgataagg	tactcaagaa	acagttctca	ttcacataat	ttgggttaaa	acaaaaagaa	16683
gccagctttc	tatatacttt	tggtccagtc	tttacgtttt	ttgttttgtt	ttgtttgttt	16743
tcatgagtat	cccgacttcc	ttctaagaac	ttccacctga	gaactgacca	cagcgtcagc	16803
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aaattaaaat	agtggtgaaa	ttagagtgga	ggacataatc	accctatcat	ataggctatt	16983
tgtccatatc	atatttgtcc	ctacaaaggc	ctctaaggnn	nnnnnnnn	nnnnnnnn	17043
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	17103
nnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	17163
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	17223
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	17283
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnn	17343
nnnnnnnnn	nnnnnnnnn	nnnctctaag	ataccttgtg	cttcttggaa	catatttgga	17403
aaatcatgta	gctctcaaat	tatccctatg	tcctgaagcc	caccttacca	tcaatcctca	17463
gaaataccca	acccatgtca	ggcaacttca	cactttcttt	cttcaggcag	cacagttgtc	17523

FIG. 7L

tcagggagg	g aggagagtgo	tattagcaaq	g aggagtcact	aacagcttca	ctcacctgt	g 17583
cccatgaat	t tttaatggto	g tgaaaagtct	gtgtatttt	tatggttctc	: tatggctcat	17643
ataagaggg	a caaacaatad	atgaaagtto	agagatgggg	acaaatatca	ctttaagcto	g 17703
gggataatca	a gggaagaaga	aagttttcat	ggagaaggtg	acttttgaat	caggaagaaa	17763
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cctggagcat	gaatagagtg	cagcagggtg	aataatgagt	ctgcaggaat	taatagaaat	18423
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atttgtgggc	ttttctcccc	ag atc tga Ile	acctgtggtc	ttgggagcca	gggtgacctg	18781 273
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gcctatggct	ttaagcaagc	actactgcac	tttacagaat	taccccactg	gatcctggac	19021
ccacagaatt	ccttcaggat	ccttcttgct	gccagactga	aagcaaaagg	aattatttcc	19081

FIG. 7M

cctcaagttt	tctaagtgat	ttccaaaagc	agaggtgtgt	ggaaatttcc	agtaacagaa	19141
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gctattgaga	ctatga					19217



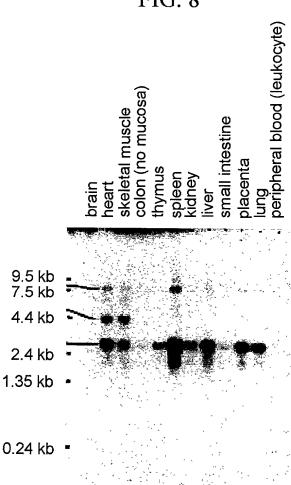


FIG. 9

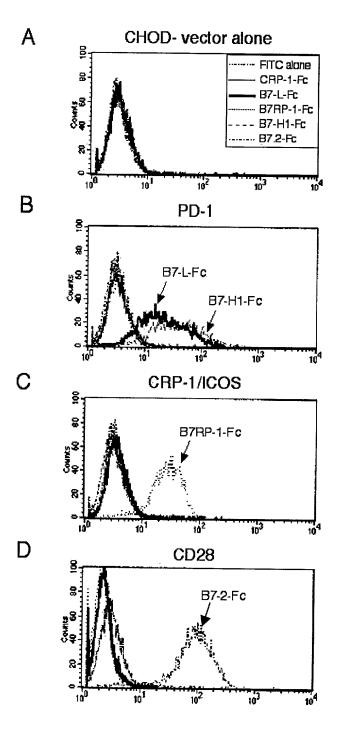


FIG. 10

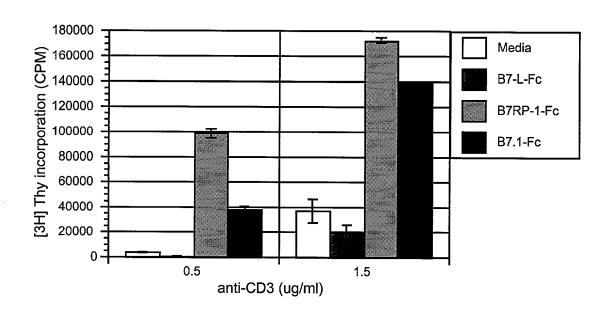


FIG. 11

